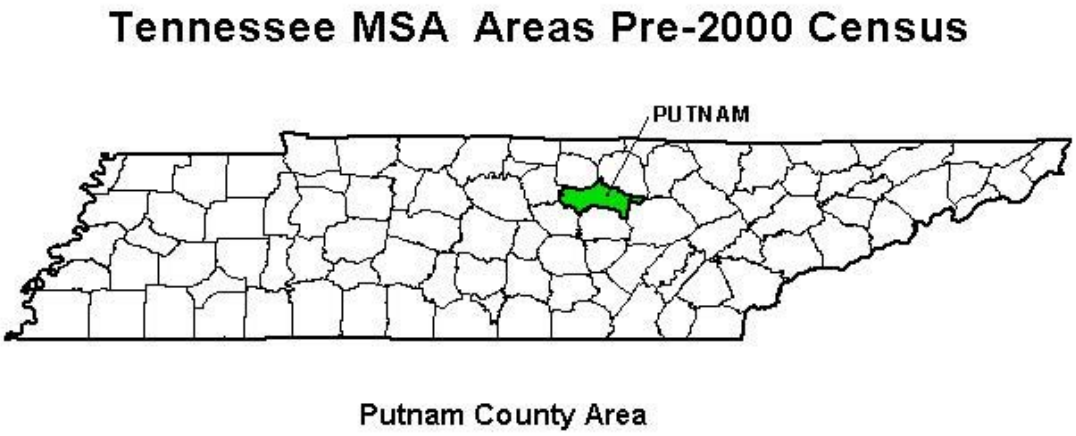
Putnam County

Local Air Quality Improvement Plan



Putnam County Area

Putnam County, Tennessee

Geography/Topography

Putnam County has a land area of 401 square miles and is located on the Eastern Highland Rim of the Middle Grand Division of the state along the Interstate 40 corridor between Nashville and Knoxville.

Meteorological Information

Wind data from Nashville for the period of record from 1988 through1992 was determined to be representative for Putnam County. The predominate wind direction and speed is from the south at 7 to 10 knots (see Figure 1 A). The mean high temperature for July is 88.7 F, while the mean low is 69.5 F. The mean July precipitation is 3.8 inches. The period of record for this data is from 1971 through 2000.

Planning Authority

The authority for air quality planning for Putnam County resides with the Tennessee Department of Environment and Conservation. Transportation planning for Putnam County is performed by the Tennessee Department of Transportation.

Air Monitoring

For the 2001-2003 monitoring period, the ozone monitor (471410004 – 2) located at 1382 Benson Road shows an 8-hour design value of 0.082 parts per million (ppm) which would be classified as attainment (see Table 1 A). It is unlikely that after the final quality assurance of the 2003 data the 8-hour design value will change significantly.

For the monitoring period of 2000-2002, the 8-hour design value showed a value of 0.086 ppm. In the July 18, 2003 Governor's recommendation for counties not meeting the ozone standard, Putnam County was recommended as non-attainment for ozone based on the 2000-2002 data. However, after reviewing the most recent data for 2001-2003 the State would propose Putnam County be classified as attainment (see Table 1 A).

Population

Based on projections to 2002 from the 2000 census data, there are 64,300 persons living in Putnam County (see Table 1 C). This indicates a population density of 160.4 persons per square mile. The population of Putnam County is approximately 39.3% rural with the remaining 60.7% living in incorporated areas. The largest city in Putnam County is Cookeville (see Table 1 C).

Putnam County's population from 1990 through 2000 increased by approximately 20.8% (51,568 to 62,315). The population is expected to increase by 7.7% between 2000 and 2010 (see Table 1 B).

Air Emissions

Point source NOX emissions from Putnam County were estimated at 1.98 ton/day in 1999. Point source VOC emissions from Putnam County were estimated at 12.50 ton/day in 1999 (see Table 1 D).

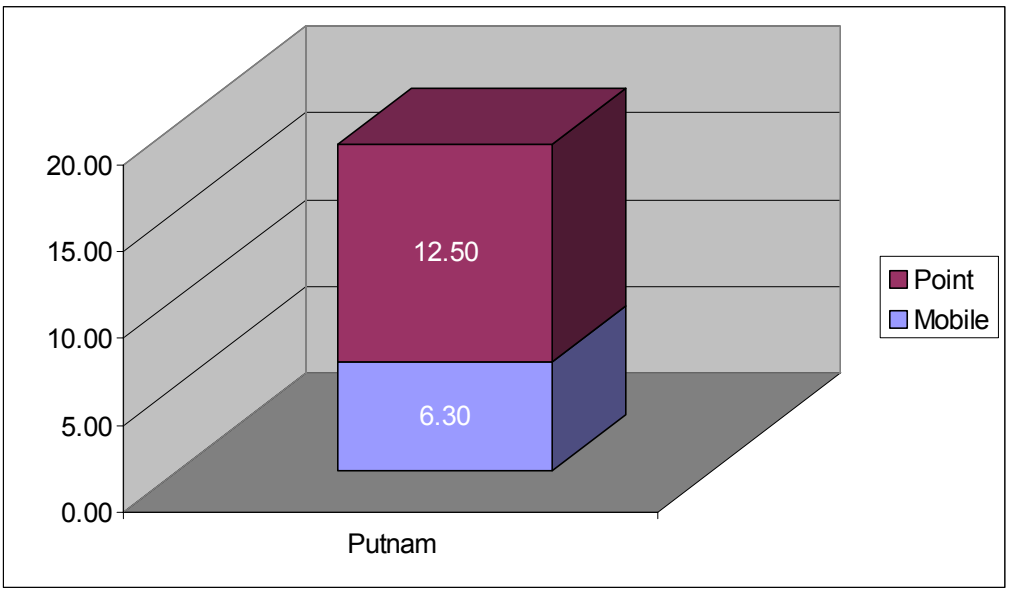
For NOX and VOC control, point sources located within Putnam County are subject to PSD requirements, CTG RACT requirements, Maximum Achievable Control Technology (MACT) requirements for Hazardous Air Pollutants (HAP), and New Source Performance Standards (NSPS).

Mobile source NOX emissions from Putnam County were estimated at 21.73 ton/day in 1999. Mobile source VOC emissions from Putnam County were estimated at 6.30 ton/day in 1999 (see Table 1 D).

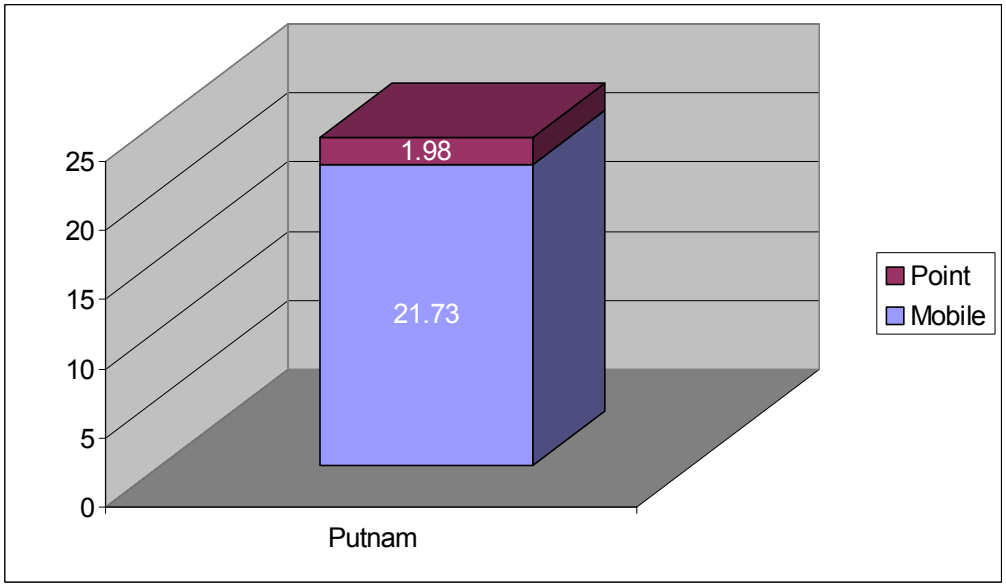
Commuting traffic from surrounding counties into Putnam County is minimal. Commuting traffic from Putnam County into surrounding counties is minimal.

Commuting Classifications	
Not Significant	0-10%
Minimal	11-30%
High	31-50%
Significant	51% or more

1999 NEI VOC Contribution
(ton/day)



1999 NEI NOX Contribution
(ton/day)



Summary

Putnam County has demonstrated attainment for the 8-hour National Ambient Air Quality Standard for ozone. Based on the 2001-2003 ozone design value Putnam County's ozone design value is measured at 0.082 ppm. Although measuring attainment, the County recognizes the importance of air quality to the health and welfare of its citizens. For this reason the local government is volunteering to take measures not required of them to improve air quality.

The County has selected several measures for local implementation. Due to the County's rural nature and few stationary source air pollution emissions, emphasis is being placed on public education. The primary source of NOx in the County is likely Interstate 40, traversing the County's length, east to west. It is possible the second most prevalent NOx source in the County is individual citizen behavior. Efforts on the local level will attempt to target citizen behavior through education and outreach. Through these efforts, and additional local government efforts, the County is attempting to reduce air pollution for its citizens

Putnam County

Figure 1 A
Putnam County
Wind Rose

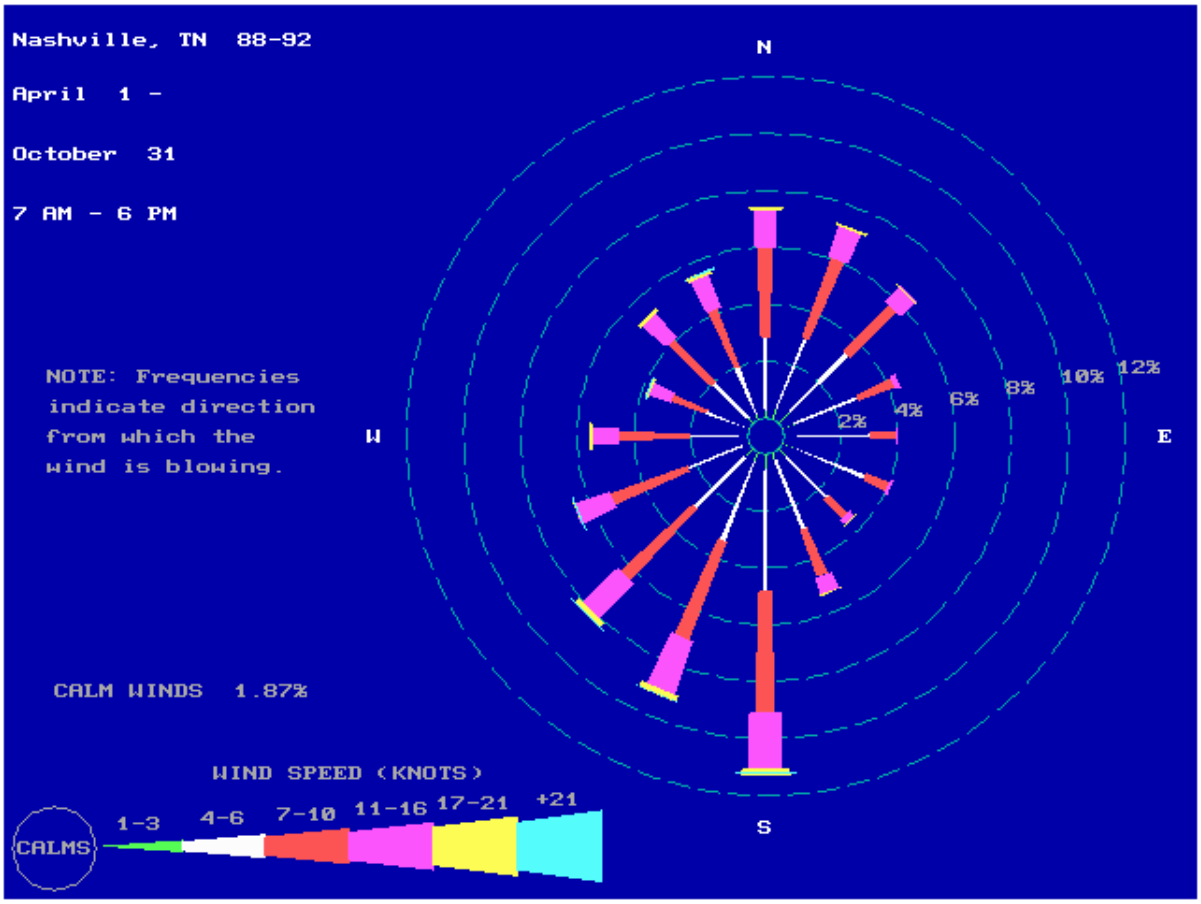


Figure 1 B
Putnam County
1999 NEI VOC and NOX Emissions
(ton/day)

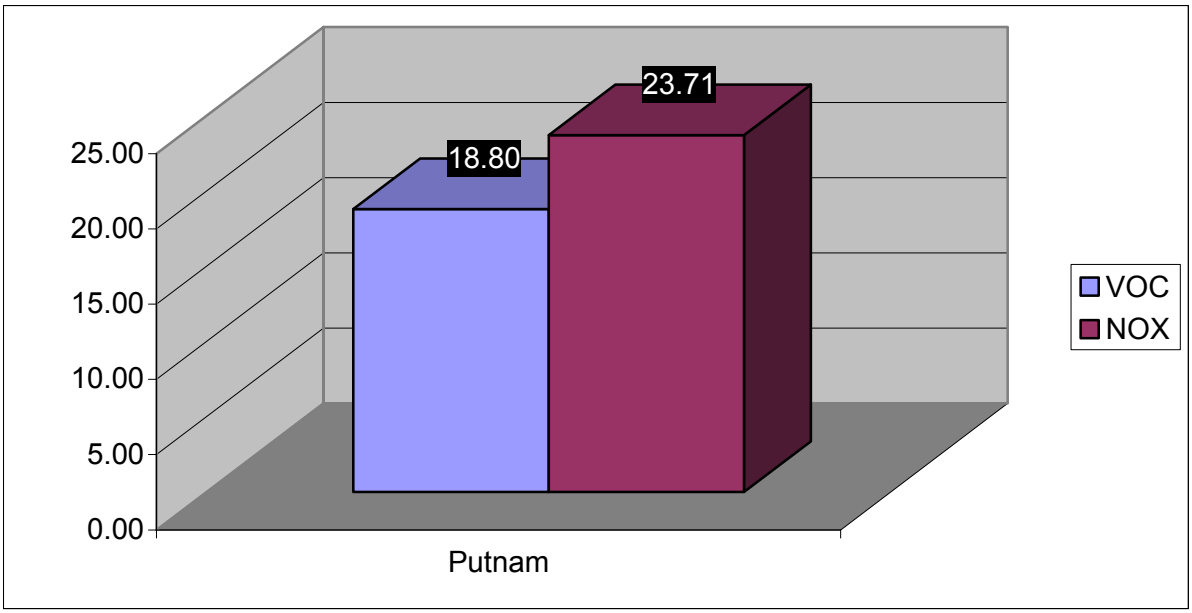


Table 1 A
Putnam County
Ozone Design Values
(ppm)

County	Site Name	MONITOR ID	1999 2001 Design Value PPM	2000 2002 Design Value PPM	2001 2003 Design Value PPM
Putnam Co	1382 Benson Road, Cookeville, TN	471410004 - 2	0.087	0.086	0.082

Table 1 B
Putnam County
Population Growth Data

County	Population 1990	Population 2000	PERCENT CHANGE 1990 - 2000	Population 2002	Area in Square Miles	2002 Pop. Density (Sq. Mile)	Projection 2010	% Growth 2000 - 2010
Putnam	51,568	62,315	20.8	64,300	401	160.35	67,128	7.7

Table 1 C
Putnam County
2002 Population Estimates

Tennessee	Estimated Population
Putnam	**64,300**
* Cookeville	(23,923)
* Algood	(2,942)
* Monterey	(2,717)
* Baxter	(1,279)

* Based on 2000 Census Data

Table 1 D
Putnam County
1999 NEI VOC and NOX Emissions
(ton/day)

County	VOC			NOX		
	Mobile	**Point**	**Total**	**Mobile**	**Point**	**Total**
Putnam	6.30	12.50	18.80	21.73	1.98	23.71

Attachment 1